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*indef. in the absence of a seq. identifier
which places the domains
in relation to the entire protein*

L1: Entry 1 of 1

File: USPT

Sep 11, 2001

US-PAT-NO: 6287566

DOCUMENT-IDENTIFIER: US 6287566 B1

TITLE: Protective peptides neurotoxin of C. botulinum

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dertzbaugh; Mark T.	Frederick	MD		

US-CL-CURRENT: 424/190.1; 424/192.1, 424/239.1, 530/300, 530/350, 930/200

CLAIMS:

What is claimed is:

1. An isolated polypeptide consisting of at least 100 amino acids from either sequence

H.sub.3 H-IKVNN WDLFF SPSED NFTND LNKGE EITSD TNIEA AEENI SLDLI QQYYL TFNFD
NEPEN ISIEEN LSSDI IGQLE LMPNI ERFPN GKKEYE LDKYT MFHYL RAQEF EHGKS RIALT NSVNE
ALLNP SRVYT FFSSD YVKKV NKATE AAMFL GWVEQ LVDYF TDETS EVSTT DKIAID ITIII PYIGP
ALNIG NMLYK DDFVG ALIFS GA-COOH (Seq. ID No. 21)

or

H.sub.3 N-LNSSL YRGTK FIIKK YASGN KDNIV RNNDNR VYINV VVKNK EYRLA TNASQ AGVEK
ILSAL EIPDV GNLSQ VVVMK SKNDQ GITNK CKMNL QDNNG NDIGF IGFHQ FNNIA KLVAS NWYNR
QIERS SRTLK CSWEF IPVDD-COOH (Seq. ID NO. 22).

2. A composition of matter comprising at least one polypeptide of claim 1 in a carrier.

3. An isolated fusion protein of wherein a first polypeptide consisting of at least 100 amino acids is from either sequence

H.sub.3 H-IKVNN WDLFF SPSED NFTND LNKGE EITSD TNIEA AEENI SLDLI QQYYL TFNFD
NEPEN ISIEEN LSSDI IGQLE LMPNI ERFPN GKKEYE LDKYT MFHYL RAQEF EHGKS RIALT NSVNE
ALLNP SRVYT FFSSD YVKKV NKATE AAMFL GWVEQ LVDYF TDETS EVSTT DKIAID ITIII PYIGP
ALNIG NMLYK DDFVG ALIFS GA-COOH (Seq. ID NO. 21)

or

H.sub.3 N-LNSSL YRGTK FIIKK YASGN KDNIV RNNDNR VYINV VVKNK EYRLA TNASQ AGVEK
ILSAL EIPDV GNLSQ VVVMK SKNDQ GITNK CKMNL QDNNG NDIGF IGFHQ FNNIA KLVAS NWYNR
QIERS SRTLK CSWEF IPVDD-COOH (Seq. ID NO. 22) is fused to a second polypeptide
which acts as an adjuvant.

4. A polypeptide of claim 3 wherein the second polypeptide is 2A polypeptide of cholera toxin.

5. A method of immunizing a mammal susceptible to botulism by administration of a composition of claim 2.